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## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 63-267278

(43)Date of publication of application : 04.11.1988

(51)Int.CI.

C12N 15/00  
C12N 5/00  
// C12P 21/02

(21)Application number : 62-056677

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(22)Date of filing : 13.03.1987

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(30)Priority

Priority number : 61 54651 Priority date : 14.03.1986 Priority country : JP

61308694 26.12.1986

JP

## (54) BASE SEQUENCE CODING BONDED INTERFERON

(57)Abstract:

**PURPOSE:** To provide a bonded interferon composed of a base sequence coding a bonded interferon obtained by linking  $\beta$ -type interferon and  $\gamma$ -type interferon and having broad working spectrum exhibiting a biological activity with single polypeptide.

**CONSTITUTION:** A base sequence coding a bonded interferon produced by linking  $\beta$ -type interferon and  $\gamma$ -type interferon. The  $\beta$ -type polypeptide is bonded to the N-terminal of the new bonded polypeptide and the  $\gamma$ -type polypeptide is disposed to the C-terminal or vice versa. For producing the bonded interferon by genetic engineering technique, a proper controlling site for expression is bonded to a DNA having a structure obtained by linking base sequences coding respective  $\beta$ -type and  $\gamma$ -type interferons directly or via a base sequence coding a spacer peptide. The expression in the recombinant can be achieved by this technique. A gene on a chromosome or a cDNA can be used as a gene for coding  $\beta$ -type or  $\gamma$ -type interferon, however, use of cDNA is preferable.

## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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